

WHAT IS CLAIMED IS:

1. An image processing condition setting  
apparatus for determining an image processing condition  
5 defining contents of an image processing to set up the  
image processing condition to an image processing apparatus  
for executing the image processing in accordance with the  
determined image processing condition, said image  
processing condition setting apparatus comprising:

10 an image obtaining section for obtaining an image  
according to an original image to be subjected to an image  
processing in said image processing apparatus;

an initial image processing condition  
determination section for determining an initial image  
15 processing condition in accordance with the image obtained  
by said image obtaining section;

an image processing condition determination  
section for determining in accordance with an operation an  
image processing condition having a desired deviation from  
20 the initial image processing condition determined by said  
initial image processing condition determination section;  
and

an image processing condition setting section for  
setting up the image processing condition determined by  
25 said image processing condition determination section to  
said image processing apparatus.

2. An image processing condition setting apparatus according to claim 1, further comprising an association defining section defining an association between parameter values of a first parameter in which values applied to points on a predetermined path in a parameter space defined by a plurality of sorts of second parameters defining a deviation from the initial image processing condition, of the image processing condition, are given as parameter values, and combinations of parameter values of said plurality of sorts of second parameters corresponding to the points on the predetermined path,

wherein said image processing condition determination section is designated by the parameter values of the first parameter in accordance with an operation, and determines, referring to the association defined by said association defining section, the image processing condition having the deviation consisting of the combinations of parameter values of said plurality of sorts of second parameters, associated with the designated parameter values.

3. An image processing condition setting apparatus according to claim 2, wherein said association defining section is a storage section for storing a table in which the association is described.

4. An image processing condition setting  
apparatus according to claim 2, wherein said association  
defining section is a storage section for storing a  
functional formula of parameter values of the second  
parameter wherein parameter values of the first parameter  
are given in form of argument.

5. An image processing condition setting  
apparatus according to claim 1, further comprising a first  
storage section for storing a deviation of the image  
processing condition determined by said image processing  
condition determination section from the initial image  
processing condition determined by said initial image  
processing condition determination section.

6. An image processing condition setting  
apparatus according to claim 2, further comprising a second  
storage section for storing parameter values of the first  
parameter representative of a deviation of the image  
processing condition determined by said image processing  
condition determination section from the initial image  
processing condition determined by said initial image  
processing condition determination section.

7. An image processing condition setting  
apparatus according to claim 1, further comprising a  
display section for displaying a handler for a deviation

adjustment from the initial image processing condition  
determined by said initial image processing condition  
determination section,

5            wherein said image processing condition  
determination section recognizes a desired deviation upon  
receipt of an operation of the displayed handler and  
determines the image processing condition having a desired  
deviation from the initial image processing condition.

10           8. An image processing condition setting  
apparatus according to claim 1, wherein said image  
processing condition determination section produces a  
plurality of images by a plurality of image processing  
based on the image processing condition having deviations  
15           mutually different on the image processing conditions for  
the initial image processing condition determined by said  
initial image processing condition, and determines the  
image processing condition of the desired image upon  
receipt of designation of a desired image of the plurality  
20           of images, in accordance with an operation.

            9. An image processing condition setting  
apparatus according to claim 2, wherein said association  
defining section defines the association on a plurality of  
25           sorts of first parameter for a plurality of paths mutually  
different in the parameter space,

            said image processing condition setting apparatus

further comprises a parameter selection section for selecting at a time a sort of first parameter from among the plurality of sorts of first parameter in accordance with an operation, and

5           said image processing condition determination section produces a plurality of images subjected to an image processing based on the image processing condition for the parameter values of the first parameter selected by said parameter selection section, for the initial image  
10           processing condition determined by said initial image processing condition, and determines the image processing condition of the desired image upon receipt of designation of a desired image of the plurality of images, in accordance with an operation.

15           10. An image processing condition setting apparatus according to claim 2, wherein said association defining section defines the association on a plurality of sorts of first parameter for a plurality of paths mutually  
20           different in the parameter space,

          said image processing condition setting apparatus further comprises a parameter selection section for selecting simultaneously two sorts of first parameter from among the plurality of sorts of first parameter in  
25           accordance with an operation, and

          said image processing condition determination section produces a plurality of images subjected to an

image processing based on the image processing condition  
for sets of the parameter values of the two sorts of first  
parameters selected by said parameter selection section,  
for the initial image processing condition determined by  
5 said initial image processing condition, and determines the  
image processing condition of the desired image upon  
receipt of designation of a desired image of the plurality  
of images, in accordance with an operation.

10 11. An image processing condition setting  
apparatus according to claim 10, wherein said image  
processing condition setting apparatus further comprises a  
display section for displaying the plurality of images  
produced by said image processing condition determination  
15 section on a two-dimensional basis in accordance with the  
parameter values of the two sorts of first parameters.

12. An image processing condition setting  
apparatus according to claim 1, wherein said image  
20 processing condition setting apparatus further comprises:

an image processing section for performing an  
image processing for the image obtained by said image  
obtaining section in accordance with the initial image  
processing condition determined by said the initial image  
25 processing condition determination section;

a display section for displaying a handler for a  
deviation adjustment from the initial image processing

condition determined by said initial image processing  
condition determination section and an image subjected to  
the image processing by said image processing section, and  
an indication section for indicating a microscopic  
5 area on the image displayed on said display section in  
accordance an operation,

wherein said image processing condition  
determination section recognizes a desired deviation as to  
the microscopic area on the image indicated by said  
10 indication section in accordance with an operation of said  
handler and determines the image processing condition in  
which the desired deviation is reflected on the microscopic  
area.

13. An image processing condition setting program  
storage medium storing an image processing condition  
setting program, wherein when the image processing  
condition setting program is executed by a computer system,  
said computer system serves as an image processing  
20 condition setting apparatus for determining an image  
processing condition defining contents of an image  
processing to set up the image processing condition to an  
image processing apparatus for executing the image  
processing in accordance with the determined image  
25 processing condition, said image processing condition  
setting program comprising:

an image obtaining section for obtaining an image

according to an original image to be subjected to an image processing in said image processing apparatus;

an initial image processing condition determination section for determining an initial image processing condition in accordance with the image obtained by said image obtaining section;

an image processing condition determination section for determining in accordance with an operation an image processing condition having a desired deviation from the initial image processing condition determined by said initial image processing condition determination section; and

an image processing condition setting section for setting up the image processing condition determined by said image processing condition determination section to said image processing apparatus.